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(54) Title: **PROCESS CONTROL BASED ON MICROBIOLOGICAL ACTIVITY**

(57) Abstract: The present invention relates to the determination of environmental conditions for the purpose of process control using microorganisms. The present invention uses the principle that intrinsic changes in a microorganism after applying an external stimulus are characteristic of the nature of the stimulus the microorganism receives from outside. By measuring these intrinsic changes, microorganisms can be used as a specific sensor to determine environmental conditions, to determine the degree of change in these environmental conditions, to determine the nature and force of the stimulus and to be able to measure the effects of a diversity of stimuli on various processes and thus control these processes.



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